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3568		
EXAMINER		
ABRAHAM, FETSUM		
PAPER NUMBER		
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DATE MAILED: 03/11/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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gal.	Apı	plication No.	Applicant(s)	Q .		
<u> </u>		709,569	CHEN, ANCHOR			
Office Action Sum	mary	miner	Art Unit			
	' - '	sum Abraham	2826			
The MAILING DATE of this Period for Reply	s communication appears	on the cover sheet wi	th the correspondence ac	ddress		
A SHORTENED STATUTORY P THE MAILING DATE OF THIS C - Extensions of time may be available under t after SIX (6) MONTHS from the mailing date - If the period for reply specified above, the - Failure to reply within the set or extended p Any reply received by the Office later than the earned patent term adjustment. See 37 CF	COMMUNICATION. the provisions of 37 CFR 1.136(a). e of this communication. s than thirty (30) days, a reply within o maximum statutory period will appi eriod for reply will, by statute, cause hree months after the mailing date of	In no event, however, may a r the statutory minimum of thir ly and will expire SIX (6) MON the application to become AB	eply be timely filed y (30) days will be considered time THS from the mailing date of this of	ely. communication.		
Status						
1) Responsive to communica	tion(s) filed on 30 Novem	nber 2004.				
2a) ☐ This action is FINAL .	2b)⊠ This actio					
3)☐ Since this application is in						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)	is/are withdrawn from s/are allowed. iected. iected to.	om consideration.				
Application Papers			•			
9)☐ The specification is objecte	d to by the Examiner.					
	10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.					
Applicant may not request tha	- •	• • •	` '			
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
	bjected to by the Examin	er. Note the attached	Office Action of form P	10-152.		
Priority under 35 U.S.C. § 119						
2. ☐ Certified copies of the3. ☐ Copies of the certifient	lone of: le priority documents hav	e been received. e been received in A ocuments have been	pplication No	Stage		
* See the attached detailed Of		e certified copies not				
1) Notice of References Cited (PTO-892) Discrete of Draftsperson's Ratent Drawing	Review (PTO-948)		ummary (PTO-413))/Mail Date			
B) Information Disclosure Statement(s) (P Paper No(s)/Mail Date			formal Patent Application (PT	O-152)		

Application/Control Number: 10/709,569

Art Unit: 2826

استخفر

Final rejection

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-5,7-12 have been rejected under 35 U.S.C. 103(a) as being unpatentable over Norstrom et al (6,657,242).

The rejection sent on 8/31/04 stands valid. Please refer to the rejection as part of this document for future reference. This document will specifically address the amended portion of the claims.

The prior art discloses all claimed subject matter as discussed in the previous rejection with the exception of using similar expressions to define the structural relationships of device elements for one skilled in the art to correlate the structures based on structural similarities irrespective of expression differences.

The amended claim language now introduces "a selective implant collector region formed in the substrate and beneath the opening" as a distinguishing factor of the claimed invention from the prior art. However, method of making a given layer has no patentable value in device claims so far as the final product arrives at similar structures. Therefore, it would have been obvious to one skilled in the art to form the collector layer of the prior art by any method known in the art including deep implantation, since implantation results in forming layers deep into a substrate which is

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the usual location of collectors in bipolar structures faster than other methods such as diffusion.

Claims 14-17, 20,21 have been allowed.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Examiner's answer to applicant's argument

Clearly, the applicant strongly argues on the method of forming the collector region of the claimed bipolar structure as the basis of patentable element in contrast to the patent. However, as explained above, structure claims strictly deal with structures and their examination does not consider the methods used to make their layers. Therefore, the way the collector is made, although could be different from the way the related layer in the patent was made, has no patentable weight in the structural claims of the claimed invention.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Fetsum Abraham whose telephone number is: 571-272-1911. The examiner can normally be reached on 8:00 - 18:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nathan J Flynn can be reached on 571-272-1915.

Felsum Abraham 3/7/05